



## MANUAL OF PATENT EXAMINING PROCEDURE

PTO/SB-08 (2-92)

Sheet 1 of 6

Form PTO-1449

INFORMATION DISCLOSED IN THE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

0152.00391

Application Number

09/743,781

Applicant

Daniel Paris, et al.

Filing Date

03/28/01

Group Art Unit

1614

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CPM	3791932	02/12/74	Schuurs et al			01/27/72
	3839153	10/01/74	Schuurs et al			12/10/71
	3850578	11/26/74	McConnell			11/26/74
	3850752	11/26/74	Schuurs et al			10/29/71
	3853987	12/10/74	Dreyer			09/01/71
	3867517	02/18/75	Ling			12/21/71
	3879262	04/22/75	Schuurs et al			05/01/73
	3901654	08/26/75	Gross			06/21/71
	3935074	01/27/76	Rubenstein et al			12/17/73
	3984533	10/05/76	Uzgiris			11/13/75
	3996345	12/07/76	Ullman et al			06/30/75
	4034074	07/05/77	Miles			09/19/74
	4098876	07/04/78	Piasio et al			10/26/76
	4439196	03/27/84	Higuchi			03/18/82
	4447224	05/08/84	DeCant, Jr. et al.			09/20/82
	4447233	05/08/84	Mayfield			07/30/82
	4475196	10/02/84	LaZor			03/06/81
	4486194	12/04/84	Ferrara			07/08/83
	4487603	12/11/84	Harris			11/26/82
	4666828	5/19/87	Gusella			08/18/84
	4683202	07/28/87	Mullis			10/25/85
	4801531	01/31/89	Frossard			09/30/85
	4879219	11/07/89	Wands et al			09/19/80
	4925678	05/15/90	Ranney			04/01/87

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4959217	09/25/90	Sanders, et al.	05/22/86
5011771	04/30/91	Bellet et al	09/24/87
567616	12/01/92	Haak, et al.	12/14/89
569383	12/08/92	Gyory, et al.	10/02/89
5192659	03/09/93	Simons	07/11/90
5225182	07/06/93	Sharma	10/31/91
5272057	12/21/93	Smulson et al.	10/14/88
5281521	01/25/94	Trojanowski et al	07/20/92
5,700,816	12/23/97	Isakson et al.	06/12/95
5,932,576	08/03/99	Anantanarayan et al.	05/22/98

## FOREIGN PATENT DOCUMENTS

DOCKET NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date Pertinent Pages, Etc.)

Will submit upon receipt	Abramovitz, M., E. Wong, M.E. Cox, C.D. Richardson, C. Li, and P.J. Vickers. 5-lipoxygenase-activating protein stimulates the utilization of arachidonic acid by 5-lipoxygenase. <i>Eur. J. Biochem.</i> 215:105-11, 1993.
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Will submit upon receipt	Coria, F., A. Moreno, I. Rubio, M.A. Garcia, E. Morato, and F. Mayor. The cellular pathology associated with Alzheimer $\beta$ -amyloid deposits in non-demented aged individuals. <i>Neuropathol. Appl. Neurobiol.</i> 19:261-268, 1993.
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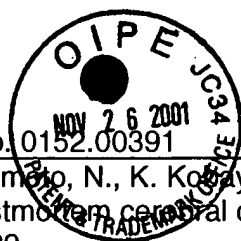
NOV 28 2001

TECH CENTER 1600/2900

USSN 09/743,781

Attorney Docket No. 0152.00391

Will submit upon receipt	Duan, R., C. Gray, J. Haxby, M. Sundaram, N.R. Cutler, L. Heston, A. Moore, I. Schlager, S. Larson, and S.I. Rapoport. Positron emission tomography in Alzheimer's disease. <i>Neurology</i> 36:879-887, 1986.
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Will submit upon receipt	Ellis, R.J., J.M. Olichney, L.J. Thal, S.S. Mirra, J.C. Morris, D. Beekly, and A. Heyman. Cerebral amyloid angiopathy in the brains of patients with Alzheimer's disease: the CERAD experience, Part XV. <i>Neurology</i> 46:1592-6, 1996.
Will submit upon receipt	Farooqui, A.A., S.I. Rapoport, and L.A. Horrocks. Membrane phospholipid alterations in Alzheimer's disease: deficiency of ethanolamine plasmalogens. <i>Neurochem. Res.</i> 22:523-7, 1997.
Will submit upon receipt	Futaki, N., S. Takahashi, M. Yokoyama, I. Arai, S. Higuchi, and S. Otomo. NS-398, a new anti-inflammatory agent, selectively inhibits prostaglandin G/H synthase/cyclooxygenase (COX-2) activity in vitro. <i>Prostaglandins</i> 47:55-9, 1994.
Will submit upon receipt	Glover, S., M.S. de Carvalho, T. Bayburt, M. Jonas, E. Chi, C.C. Leslie, and M.H. Gelb. Translocation of the 85-kDa phospholipase A2 from cytosol to the nuclear envelope in rat basophilic leukemia cells stimulated with calcium ionophore or IgE/antigen. <i>J. Biol. Chem.</i> 270:15359-67, 1995.
Will submit upon receipt	Gravitt, K.R., N.E. Ward, and C.A. O'Brian. Inhibition of protein kinase C by melittin: antagonism of binding interactions between melittin and the catalytic domain by active-site binding of MgATP. <i>Biochem. Pharmacol.</i> 47:425-7, 1994.
Will submit upon receipt	Griffin, W.S.T., J.G. Sheng, G.W. Roberts, and R.E. Mrak. Interleukin-1 expression in different plaque types in Alzheimer's disease: significance in plaque evolution. <i>J. Neuropathol. Exp. Neurol.</i> 54:276-281, 1995.
Will submit upon receipt	Han, S.K., B.I. Lee, and W. Cho. Bacterial expression and characterization of human pancreatic phospholipase A2. <i>Biochim. Biophys. Acta.</i> 1346:185-92, 1997.
Will submit upon receipt	Hanasaki, K., Y. Yokota, J. Ishizaki, T. Itoh, and H. Arita. Resistance to endotoxic shock in phospholipase A2 receptor-deficient mice. <i>J. Biol. Chem.</i> 272:32792-7, 1997.
Will submit upon receipt	Hernandez, M., S.L. Burillo, M.S. Crespo, and M.L. Nieto. Secretory phospholipase A2 activates the cascade of mitogen-activated protein kinases and cytosolic phospholipase A2 in the human astrocytoma cell line 1321N1. <i>J. Biol. Chem.</i> 273:606-12, 1998.
Will submit upon receipt	Husain, S., and A.A. Abdel-Latif. Role of protein kinase C alpha in endothelin-1 stimulation of cytosolic phospholipase A2 and arachidonic acid release in cultured cat iris sphincter smooth muscle cells. <i>Biochim. Biophys. Acta.</i> 1392:127-44, 1998.
Will submit upon receipt	Huwiler, A., G. Staudt, R.M. Kramer, and J. Pfeilschifter. Cross-talk between secretory phospholipase A2 and cytosolic phospholipase A2 in rat renal mesangial cells. <i>Biochim. Biophys. Acta.</i> 1348:257-72, 1997.
Will submit upon receipt	Iadecola, C., F. Zhang, K. Niwa, C. Eckman, S.K. Turner, E. Fischer, S. Younkin, D.R. Borchelt, K.K. Hsiao, and G.A. Carlson. SOD1 rescues cerebral endothelial dysfunction in mice overexpressing amyloid precursor protein. <i>Nat. Neurosci.</i> 2:157-61, 1999.
Will submit upon receipt	Ishizaki, J., K. Hanasaki, K. Higashino, J. Kishino, N. Kikuchi, O. Ohara, and H. J. Arita. Molecular cloning of pancreatic group I phospholipase A2 receptor. <i>Biol. Chem.</i> 269:5897-904, 1994.
Will submit upon receipt	Itagaki, S., P.L. McGeer, H. Akiyama, S. Zhu, and D. Selkoe. Relationship of microglia and astrocytes to amyloid deposits of Alzheimer disease. <i>J. Neuroimmunol.</i> 24:173-182, 1989.
Will submit upon receipt	Iversen, L.L., R.J. Mortishire-Smith, S.J. Pollack, and M.S. Shearman. The toxicity in vitro of beta-amyloid protein. <i>Biochem. J.</i> 311:1-16, 1995.



NOV 28 2001

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Will submit upon receipt	Iwamoto, N., K. Kobayashi, and K. Kosaka. The formation of prostaglandins in the postmortem cerebral cortex of Alzheimer-type dementia patients. <i>J. Neurol.</i> 236:80-4, 1989.
Will submit upon receipt	Jeandel, C., M.B. Nicolas, F. Dubois, F. Nabet-Belleville, F. Penin, and G. Cuny. Lipid peroxidation and free radical scavengers in Alzheimer's disease. <i>Gerontology</i> 35:275-82, 1989.
Will submit upon receipt	Johnson, K.A., S.T. Mueller, T.M. Walshe, R.J. English, and B.L. Holman. Cerebral perfusion imaging in Alzheimer's disease. Use of a single photon emission computed tomography and iofetamine hydrochloride I 123. <i>Arch. Neurol.</i> 44:165-168, 1987.
Will submit upon receipt	Joyce-Brady, M., J.B. Rubins, M.P. Panchenko, J. Bernardo, M.P. Steele, L. Kolm, E.R. Simons, and B.F. Dickey. Mechanisms of mastoparan-stimulated surfactant secretion from isolated pulmonary alveolar type 2 cells. <i>J. Biol. Chem.</i> 266:6859-65, 1991.
Will submit upon receipt	Kan, H., Y. Ruan, and K.U. Malik. Involvement of mitogen-activated protein kinase and translocation of cytosolic phospholipase A2 to the nuclear envelope in acetylcholine-induced prostacyclin synthesis in rabbit coronary endothelial cells. <i>Mol. Pharmacol.</i> 50:1139-47, 1996.
Will submit upon receipt	Kanemasa, T., K. Hanasaki, and H. Arita. Migration of vascular smooth muscle cells by phospholipase A2 via specific binding sites. <i>Biochim. Biophys. Acta.</i> 1125:210-4, 1992.
Will submit upon receipt	Kishino, J., O. Ohara, K. Nomura, R.M. Kramer, and H. Arita. Pancreatic-type phospholipase A2 induces group II phospholipase A2 expression and prostaglandin biosynthesis in rat mesangial cells. <i>J. Biol. Chem.</i> 269:5092-8, 1994.
Will submit upon receipt	Klinker, J.F., K.L. Laugwitz, A. Hagelken, and R. Seifert. Activation of GTP formation and high-affinity GTP hydrolysis by mastoparan in various cell membranes. G-protein activation via nucleoside diphosphate kinase, a possible general mechanism of mastoparan action. <i>Biochem. Pharmacol.</i> 51:217-23, 1996.
Will submit upon receipt	Kundu, G.C., and A.B. Mukherjee. Evidence that porcine pancreatic phospholipase A2 via its high affinity receptor stimulates extracellular matrix invasion by normal and cancer cells. <i>J. Biol. Chem.</i> 272:2346-53, 1997.
Will submit upon receipt	Kuo, Y., M. Emmerling, C. Vigo-Pelfrey, T.C. Kasunic, J.B. Kirkpatrick, G.H. Murdoch, M.J. Ball, and A. Roher. Water-soluble Abeta (N-40, N-42) Oligomers in Normal and Alzheimer Disease Brains. <i>J. Biol. Chem.</i> 271:4077-4081, 1996.
Will submit upon receipt	Kuo, Y., M. Emmerling, H. Lampert, S.R. Hempelman, T.A. Kokjohn, A.S. Woods, R.J. Cotter, and A. Roher. High Levels of Circulating Abeta42 are Sequestered by Plasma Proteins in Alzheimer's Disease. <i>Biochem. Biophys. Res. Comm.</i> 257:787-791, 1999.
Will submit upon receipt	Lambeau, G., P. Ancian, J. Barhanin, and M. J. Lazdunski. Cloning and expression of a membrane receptor for secretory phospholipases A2. <i>Biol. Chem.</i> 269:1575-8, 1994.
Will submit upon receipt	Lehtonen, J.Y., J.M. Holopainen, and P.K. Kinnunen. Activation of phospholipase A2 by amyloid beta-peptides in vitro. <i>Biochemistry</i> 35:9407-14, 1996.
Will submit upon receipt	Lin, L.L., M. Wartmann, A.Y. Lin, J.L. Knopf, A. Seth, and R.J. Davis. cPLA2 is phosphorylated and activated by MAP kinase. <i>Cell</i> 72:269-78, 1993.
Will submit upon receipt	Lindahl, M., and C. Tagesson. Selective inhibition of group II phospholipase A2 by quercetin. <i>Inflammation</i> 17:573-82, 1993.
Will submit upon receipt	Lue, L.F., L. Brachova, W.H. Civin, and J. Rogers. Inflammation, Abeta deposition, and neurofibrillary tangle formation as correlates of Alzheimer's disease neurodegeneration. <i>J. Neuropathol. Exp. Neurol.</i> 55:1083-1088, 1996.
Will submit upon receipt	McGeer, P.L., M. Schulzer, and E.G. McGeer. Arthritis and anti-inflammatory agents as possible protective factors for Alzheimer's disease: a review of 17 epidemiologic studies. <i>Neurology</i> 47:425-432, 1996.

NOV 28 2001

Will submit upon receipt	McGeer, P.L., and G. McGeer. Inflammation of the brain in Alzheimer's disease: implications for therapy. <i>J. Leukoc. Biol.</i> 65:409-15, 1999.
Will submit upon receipt	Minami, T., H. Tojo, Y. Shinomura, T. Komatsubara, Y. Matsuzawa, and M. Okamoto. Elevation of phospholipase A2 protein in sera of patients with Crohn's disease and ulcerative colitis. <i>Am. J. Gastroenterol.</i> 88:1076-80, 1993.
Will submit upon receipt	Morita, I., M. Schindler, M.K. Regier, J.C. Otto, T. Hori, D.L. DeWitt, and W.L. Smith. Different intracellular locations for prostaglandin endoperoxide H synthase-1 and -2. <i>J. Biol. Chem.</i> 270:10902-8, 1995.
Will submit upon receipt	Murakami, M., S. Shimbara, T. Kambe, H. Kuwata, M.V. Winstead, J.A. Tischfield, and I. Kudo. The functions of five distinct mammalian phospholipase A2S in regulating arachidonic acid release. Type IIa and type V secretory phospholipase A2S are functionally redundant and act in concert with cytosolic phospholipase A2. <i>J. Biol. Chem.</i> 273:14411-23, 1998.
Will submit upon receipt	Naidu, A., D. Quon, and B. Cordell. beta-Amyloid peptide produced in vitro is degraded by proteinases released by cultured cells. <i>J. Biol. Chem.</i> 270:1369-74, 1995.
Will submit upon receipt	Nakajima, M., K. Nanasaki, M. Ueda, and H. Arita. Effect of pancreatic type phospholipase A2 on isolated porcine cerebral arteries via its specific binding sites. <i>FEBS Lett</i> 309:261-4, 1992.
Will submit upon receipt	Nitsch, R.M., J.K. Blusztajn, A.G. Pittas, B.E. Slack, J.H. Growdon, and R.J. Wurtman. Evidence for a membrane defect in Alzheimer disease brain. <i>Proc. Natl. Acad. Sci. U S A</i> 89:1671-5, 1992.
Will submit upon receipt	Nomura, K., H. Fujita, and H. Arita. Gene expression of pancreatic-type phospholipase-A2 in rat ovaries: stimulatory action on progesterone release. <i>Endocrinology</i> 135:603-9, 1994.
Will submit upon receipt	Okamoto, T., S. Takeda, Y. Murayama, E. Ogata, and I. Nishimoto. Ligand-dependent G protein coupling function of amyloid transmembrane precursor. <i>J. Biol. Chem.</i> 270:4205-8, 1995.
Will submit upon receipt	Paris, D., T.A. Parker, T. Town, Z. Suo, C. Fang, J. Humphrey, F. Crawford, and M. Mullan. Role of Peroxynitrite in the Vasoactive and Cytotoxic Effects of Alzheimer's beta-amyloid1-40 Peptide. <i>Exp. Neurol.</i> 152:116-122, 1998.
Will submit upon receipt	Paris, D., T. Town, T.A. Parker, J. Humphrey, and M. Mullan. Isoform-specific vasoconstriction induced by Apolipoprotein E and modulation of this effect by Alzheimer's beta-amyloid peptide. <i>Neurosci. Lett.</i> 256:73-76, 1998.
Will submit upon receipt	Paris, D., T. Town, T.A. Parker, J. Tan, J. Humphrey, F. Crawford, and M. Mullan. Inhibition of Alzheimer's beta-Amyloid Induced Vasoactivity and Proinflammatory Response in Microglia by a cGMP-Dependent Mechanism. <i>Exp. Neurol.</i> 157:211-221, 1999.
Will submit upon receipt	Rogers, J., L.C. Kirby, S.R. Hempielman, et al. Clinical trial of indomethacin in Alzheimer's disease. <i>Neurology</i> 43:1609-1611, 1993.
Will submit upon receipt	Selkoe, D.J. Amyloid beta-protein and the genetics of Alzheimer's disease. <i>J. Biol. Chem.</i> 271:18295-8, 1996.
Will submit upon receipt	Serhan, C.N., J.Z. Haeggstrom, and C.C. Leslie. Lipid mediator networks in cell signaling: update and impact of cytokines. <i>FASEB J.</i> 10:1147-58, 1996.
Will submit upon receipt	Sisodia S.S., and D.L. Price. Role of the beta-amyloid protein in Alzheimer's disease. <i>FASEB J.</i> 9:366-70, 1995.
Will submit upon receipt	Stephenson, D.T., C.A. Lemere, D.J. Selkoe, and J.A. Clemens. Cytosolic phospholipase A2 (cPLA2) immunoreactivity is elevated in Alzheimer's disease brain. <i>Neurobiol. Dis.</i> 3:51-63, 1996.
Will submit upon receipt	Stewart, W.F., C. Kawas, M. Corrada, and E.J. Metter. Risk of Alzheimer's disease and duration of NSAID use. <i>Neurology</i> 48:626-632, 1997.

USSN 09/743,781

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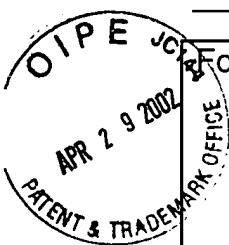
NOV 28 2001

Will submit upon receipt	Suo, J. Humphrey, A. Kundtz, F. Sethi, A. Placzek, F. Crawford, and M. Mullan. Soluble Alzheimer's beta-amyloid constricts the cerebral vasculature in vivo, <i>Neurosci. Lett.</i> 257:77-80, 1998.
Will submit upon receipt	Thomas, T., G. Thomas, C. McLendon, T. Sutton, and M. Mullan. beta-Amyloid-mediated vasoactivity and vascular endothelial damage. <i>Nature</i> 380:168-71, 1996.
Will submit upon receipt	Tischfield, J.A. A reassessment of the low molecular weight phospholipase A2 gene family in mammals. <i>J. Biol. Chem.</i> 272:17247-50, 1997.
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Will submit upon receipt	Tsunoda, Y., and C. Owyang. The regulatory site of functional GTP binding protein coupled to the high affinity cholecystokinin receptor and phospholipase A2 pathway is on the G beta subunit of Gq protein in pancreatic acini. <i>Biochem. Biophys. Res. Commun.</i> 211:648-55, 1995.
Will submit upon receipt	Walker, D.G., O. Yasuhara, P.A. Ratston, E.G. McGeer, and P.L. McGeer. Complement C1 inhibitor is produced by brain tissue and is cleaved in Alzheimer disease. <i>Brain. Res.</i> 675:75-82, 1995.
Will submit upon receipt	Wisniewski, H.M., and J. Weigel. Migration of perivascular cells into the neuropil and their involvement in beta-amyloid plaque formation. <i>Acta. Neuropathol. (Berl.)</i> 85:586-95, 1993.
Will submit upon receipt	Wisniewski, H.M., J. Wegiel, K.C. Wang, and B. Lach. Ultrastructural studies of the cells forming amyloid in the cortical vessel wall in Alzheimer's disease. <i>Acta. Neuropathol. (Berl.)</i> 84:117-27, 1992.
Will submit upon receipt	Zhu, M., C.H. Gelband, J.M. Moore, P. Posner, and C. Sumners. Angiotensin Type 2 Receptor Stimulation of Neuronal Delayed-Rectifier Potassium Current Involves Phospholipase A2 and Arachidonic Acid. <i>J. Neurosci.</i> 18:679-686, 1998.
EXAMINER	
DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

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DEPARTMENT OF COMMERCE

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Form PTO-1449

# SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

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	Dennis, E.A. The growing phospholipase A2 superfamily of signal transduction enzymes. <i>Trends Biochem. Sci.</i> 22:1-2, 1997.
	Duara, R., C. Grady, J. Haxby, M. Sundaram, N.R. Cutler, L. Heston, A. Moore, N. Schlageter, S. Larson, and S.I. Rapoport. Positron emission tomography in Alzheimer's disease. <i>Neurology</i> 36:879-887, 1986.
	Dudley, D.T., L. Pang, S.J. Decker, A.J. Bridges, and A.R. Saltiel.. A synthetic inhibitor of the mitogen-activated protein kinase cascade. <i>Proc. Natl. Acad. Sci. U S A</i> 92:7686-9, 1995.
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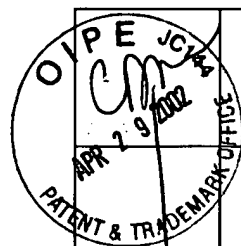
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	<p>Farooqui, A.A., S.I. Rapoport, and L.A. Horrocks. Membrane phospholipid alterations in Alzheimer's disease: deficiency of ethanolamine plasmalogens. <i>Neurochem. Res.</i> 22:523-7, 1997.</p>
	<p>Futaki, N., S. Takahashi, M. Yokoyama, I. Arai, S. Higuchi, and S. Otomo. NS-398, a new anti-inflammatory agent, selectively inhibits prostaglandin G/H synthase/cyclooxygenase (COX-2) activity in vitro. <i>Prostaglandins</i> 47:55-9, 1994.</p>
	<p>Glover, S., M.S. de Carvalho, T. Bayburt, M. Jonas, E. Chi, C.C. Leslie, and M.H. Gelb. Translocation of the 85-kDa phospholipase A2 from cytosol to the nuclear envelope in rat basophilic leukemia cells stimulated with calcium ionophore or IgE/antigen. <i>J. Biol. Chem.</i> 270:15359-67, 1995.</p>
	<p>Gravitt, K.R., N.E. Ward, and C.A. O'Brian.. Inhibition of protein kinase C by melittin: antagonism of binding interactions between melittin and the catalytic domain by active-site binding of MgATP. <i>Biochem. Pharmacol.</i> 47:425-7, 1994.</p>
	<p>Griffin, W.S.T., J.G. Sheng, G.W. Roberts, and R.E. Mrak. Interleukin-1 expression in different plaque types in Alzheimer's disease: significance in plaque evolution. <i>J. Neuropathol. Exp. Neurol.</i> 54:276-281, 1995.</p>
	<p>Han, S.K., B.I. Lee, and W. Cho. Bacterial expression and characterization of human pancreatic phospholipase A2. <i>Biochim. Biophys. Acta.</i> 1346:185-92, 1997.</p>
	<p>Hanasaki, K., Y. Yokota, J. Ishizaki, T. Itoh, and H. Arita. Resistance to endotoxic shock in phospholipase A2 receptor-deficient mice. <i>J. Biol. Chem.</i> 272:32792-7, 1997.</p>
	<p>Hernandez, M., S.L. Burillo, M.S. Crespo, and M.L. Nieto. Secretory phospholipase A2 activates the cascade of mitogen-activated protein kinases and cytosolic phospholipase A2 in the human astrocytoma cell line 1321N1. <i>J. Biol. Chem.</i> 273:606-12, 1998.</p>
	<p>Husain, S., and A.A. Abdel-Latif. Role of protein kinase C alpha in endothelin-1 stimulation of cytosolic phospholipase A2 and arachidonic acid release in cultured cat iris sphincter smooth muscle cells. <i>Biochim. Biophys. Acta.</i> 1392:127-44, 1998.</p>
	<p>Huwiler, A., G. Staudt, R.M. Kramer, and J. Pfeilschifter. Cross-talk between secretory phospholipase A2 and cytosolic phospholipase A2 in rat renal mesangial cells. <i>Biochim. Biophys. Acta.</i> 1348:257-72, 1997.</p>
	<p>Iadecola, C., F. Zhang, K. Niwa, C. Eckman, S.K. Turner, E. Fischer, S. Younkin, D.R. Borchelt, K.K. Hsiao, and G.A. Carlson. SOD1 rescues cerebral endothelial dysfunction in mice overexpressing amyloid precursor protein. <i>Nat. Neurosci.</i> 2:157-61, 1999.</p>
	<p>Ishizaki, J., K. Hanasaki, K. Higashino, J. Kishino, N. Kikuchi, O. Ohara, and H. J. Arita. Molecular cloning of pancreatic group I phospholipase A2 receptor. <i>Biol. Chem.</i> 269:5897-904, 1994.</p>
	<p>Itagaki, S., P.L. McGeer, H. Akiyama, S. Zhu, and D. Selkoe. Relationship of microglia and astrocytes to amyloid deposits of Alzheimer disease. <i>J. Neuroimmunol.</i> 24:173-182, 1989.</p>
	<p>Iversen, L.L., R.J. Mortishire-Smith, S.J. Pollack, and M.S. Shearman. The toxicity in vitro of beta-amyloid protein. <i>Biochem. J.</i> 311:1-16, 1995.</p>
	<p>Iwamoto, N., K. Kobayashi, and K. Kosaka. The formation of prostaglandins in the postmortem cerebral cortex of Alzheimer-type dementia patients. <i>J. Neurol.</i> 236:80-4, 1989.</p>
	<p>Jeandel, C., M.B. Nicolas, F. Dubois, F. Nabet-Belleville, F. Penin, and G. Cuny. Lipid peroxidation and free radical scavengers in Alzheimer's disease. <i>Gerontology</i> 35:275-82, 1989.</p>
	<p>Johnson, K.A., S.T. Mueller, T.M. Walshe, R.J. English, and B.L. Holman. Cerebral perfusion imaging in Alzheimer's disease. Use of a single photon emission computed tomography and iofetamine hydrochloride I 123. <i>Arch. Neurol.</i> 44:165-168, 1987.</p>



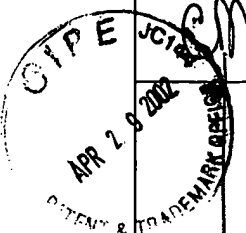
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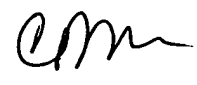
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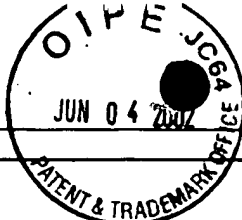


	Joyce-Brady, M., J.B. Rubins, M.P. Panchenko, J. Bernardo, M.P. Steele, L. Kolm, E.R. Simons, and B.F. Dickey. Mechanisms of mastoparan-stimulated surfactant secretion from isolated pulmonary alveolar type 2 cells. <i>J. Biol. Chem.</i> 266:6859-65, 1991.
	Kan, H., Y. Ruan, and K.U. Malik. Involvement of mitogen-activated protein kinase and translocation of cytosolic phospholipase A2 to the nuclear envelope in acetylcholine-induced prostacyclin synthesis in rabbit coronary endothelial cells. <i>Mol. Pharmacol.</i> 50:1139-47, 1996.
	Kanemasa, T., K. Hanasaki, and H. Arita.. Migration of vascular smooth muscle cells by phospholipase A2 via specific binding sites. <i>Biochim. Biophys. Acta.</i> 1125:210-4, 1992.
	Kishino, J., O. Ohara, K. Nomura, R.M. Kramer, and H. Arita. Pancreatic-type phospholipase A2 induces group II phospholipase A2 expression and prostaglandin biosynthesis in rat mesangial cells. <i>J. Biol. Chem.</i> 269:5092-8, 1994.
	Klinker, J.F., K.L. Laugwitz, A. Hageluen, and R. Seifert. Activation of GTP formation and high-affinity GTP hydrolysis by mastoparan in various cell membranes. G-protein activation via nucleoside diphosphate kinase, a possible general mechanism of mastoparan action. <i>Biochem. Pharmacol.</i> 51:217-23, 1996.
	Kundu, G.C., and A.B. Mukherjee. Evidence that porcine pancreatic phospholipase A2 via its high affinity receptor stimulates extracellular matrix invasion by normal and cancer cells. <i>J. Biol. Chem.</i> 272:2346-53, 1997.
	Kuo, Y., M. Emmerling, C. Vigo-Pelfrey, T.C. Kasunic, J.B. Kirkpatrick, G.H. Murdoch, M.J. Ball, and A. Roher. Water-soluble Abeta (N-40, N-42) Oligomers in Normal and Alzheimer Disease Brains. <i>J. Biol. Chem.</i> 271:4077-4081, 1996.
	Kuo, Y., M. Emmerling, H. Lampert, S.R. Hempelman, T.A. Kokjohn, A.S. Woods, R.J. Cotter, and A. Roher. High Levels of Circulating Abeta42 are Sequestered by Plasma Proteins in Alzheimer's Disease. <i>Biochem. Biophys. Res. Comm.</i> 257:787-791, 1999.
	Lambeau, G., P. Ancian, J. Barhanin, and M. J. Lazdunski. Cloning and expression of a membrane receptor for secretory phospholipases A2. <i>Biol. Chem.</i> 269:1575-8, 1994.
	Lehtonen, J.Y., J.M. Holopainen, and P.K. Kinnunen. Activation of phospholipase A2 by amyloid beta-peptides in vitro. <i>Biochemistry</i> 35:9407-14, 1996.
	Lim, A., Tsuang, D., Kukull, W., Nochlin, D., Leverenz, James, McCormick, W., Bowen, J., Teri, L., Thompson, J., Peskind, E., Raskind, M., Larson, E. Clinico-Neuropathological Correlation of Alzheimer's Disease in a Community-Cased Case Series, <i>JAGS</i> 47:564-569, 1999.
	Lin, L.L., M. Wartmann, A.Y. Lin, J.L. Knopf, A. Seth, and R.J. Davis. cPLA2 is phosphorylated and activated by MAP kinase. <i>Cell</i> 72:269-78, 1993.
Will submit upon receipt	Lindahl, M., and C. Tagesson. Selective inhibition of group II phospholipase A2 by quercetin. <i>Inflammation</i> 17:573-82, 1993.
	Lue, L.F., L. Brachova, W.H. Civin, and J. Rogers. Inflammation, Abeta deposition, and neurofibrillary tangle formation as correlates of Alzheimer's disease neurodegeneration. <i>J. Neuropathol. Exp. Neurol.</i> 55:1083-1088, 1996.
	McGeer, P.L., M. Schulzer, and E.G. McGeer. Arthritis and anti-inflammatory agents as possible protective factors for Alzheimer's disease: a review of 17 epidemiologic studies. <i>Neurology</i> 47:425-432, 1996.
	McGeer, P.L., and E.G. McGeer. Inflammation of the brain in Alzheimer's disease: implications for therapy. <i>J. Leukoc. Biol.</i> 65:409-15, 1999.

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		<p>Minami, T., H. Tojo, Y. Shinomura, T. Komatsubara, Y. Matsuda, and M. Iwano. Elevation of phospholipase A2 protein in sera of patients with Crohn's disease and ulcerative colitis. <i>Am. J. Gastroenterol.</i> 88:1076-80, 1993.</p>
		<p>Mirra, S.S., Gearing, M., McKeel, D.W. Jr., Crain, B.J., Hughes, J.P., van Belle, G., Heyman, A., and participating Neuopathologists. Interlaboratory Comparison of Neuopathology Assessments in Alzheimer's Disease: A Study of the Consortium to Establish a Registry for Alzheimer's Disease (CERAD), Vol. 53, No. 3, pp. 303-315, May 1994.</p>
		<p>Morita, I., M. Schindler, M.K. Regier, J.C. Otto, T. Hori, D.L. DeWitt, and W.L. Smith. Different intracellular locations for prostaglandin endoperoxide H synthase-1 and -2. <i>J. Biol. Chem.</i> 270:10902-8, 1995.</p>
		<p>Murakami, M., S. Shimbara, T. Kambe, H. Kuwata, M.V. Winstead, J.A. Tischfield, and I. Kudo. The functions of five distinct mammalian phospholipase A2S in regulating arachidonic acid release. Type IIa and type V secretory phospholipase A2S are functionally redundant and act in concert with cytosolic phospholipase A2. <i>J. Biol. Chem.</i> 273:14411-23, 1998.</p>
		<p>Naidu, A., D. Quon, and B. Cordell. beta-Amyloid peptide produced in vitro is degraded by proteinases released by cultured cells. <i>J. Biol. Chem.</i> 270:1369-74, 1995.</p>
		<p>Nakajima, M., K. Hanasaki, M. Ueda, and H. Arita. Effect of pancreatic type phospholipase A2 on isolated porcine cerebral arteries via its specific binding sites. <i>FEBS Lett</i> 309:261-4, 1992.</p>
		<p>Nitsch, R.M., J.K. Blusztajn, A.G. Pittas, B.E. Slack, J.H. Growdon, and R.J. Wurtman. Evidence for a membrane defect in Alzheimer disease brain. <i>Proc. Natl. Acad. Sci. U S A</i> 89:1671-5, 1992.</p>
		<p>Nomura, K., H. Fujita, and H. Arita. Gene expression of pancreatic-type phospholipase-A2 in rat ovaries: stimulatory action on progesterone release. <i>Endocrinology</i> 135:603-9, 1994.</p>
		<p>Okamoto, T., S. Takeda, Y. Murayama, E. Ogata, and I. Nishimoto. Ligand-dependent G protein coupling function of amyloid transmembrane precursor. <i>J. Biol. Chem.</i> 270:4205-8, 1995.</p>
		<p>Paris, D., T.A. Parker, T. Town, Z. Suo, C. Fang, J. Humphrey, F. Crawford, and M. Mullan. Role of Peroxynitrite in the Vasoactive and Cytotoxic Effects of Alzheimer's beta-amyloid1-40 Peptide. <i>Exp. Neurol.</i> 152:116-122, 1998.</p>
		<p>Paris, D., T. Town, T.A. Parker, J. Humphrey, and M. Mullan. Isoform-specific vasoconstriction induced by Apolipoprotein E and modulation of this effect by Alzheimer's beta-amyloid peptide. <i>Neurosci. Lett.</i> 256:73-76, 1998.</p>
		<p>Paris, D., T. Town, T.A. Parker, J. Tan, J. Humphrey, F. Crawford, and M. Mullan. Inhibition of Alzheimer's beta-Amyloid Induced Vasoactivity and Proinflammatory Response in Microglia by a cGMP-Dependent Mechanism. <i>Exp. Neurol.</i> 157:211-221, 1999.</p>
		<p>Rogers, J., L.C. Kirby, S.R. Hempielman, et al. Clinical trial of indomethacin in Alzheimer's disease. <i>Neurology</i> 43:1609-1611, 1993.</p>
		<p>Selkoe, D.J. Amyloid beta-protein and the genetics of Alzheimer's disease. <i>J. Biol. Chem.</i> 271:18295-8, 1996.</p>
		<p>Serhan, C.N., J.Z. Haeggstrom, and C.C. Leslie. Lipid mediator networks in cell signaling: update and impact of cytokines. <i>FASEB J.</i> 10:1147-58, 1996.</p>
		<p>Sisodia S.S., and D.L. Price. Role of the beta-amyloid protein in Alzheimer's disease. <i>FASEB J.</i> 9:366-70, 1995.</p>

		Stephenson, D.T., C.A. Lemere, D.J. Selkoe, and J.A. Clemens. Cytosolic phospholipase A2 (cPLA2) immunoreactivity is elevated in Alzheimer's disease brain. <i>Neurobiol. Dis.</i> 3:51-63, 1996.
		Stewart, W.F., C. Kawas, M. Corrada, and E.J. Metter. Risk of Alzheimer's disease and duration of NSAID use. <i>Neurology</i> 48:626-632, 1997.
		Suo, Z., J. Humphrey, A. Kundtz, F. Sethi, A. Placzek, F. Crawford, and M. Mullan. Soluble Alzheimer's beta-amyloid constricts the cerebral vasculature in vivo, <i>Neurosci. Lett.</i> 257:77-80, 1998.
		Thomas, T., G. Thomas, C. McLendon, T. Sutton, and M. Mullan. beta-Amyloid-mediated vasoactivity and vascular endothelial damage. <i>Nature</i> 380:168-71, 1996.
		Tischfield, J.A. A reassessment of the low molecular weight phospholipase A2 gene family in mammals. <i>J. Biol. Chem.</i> 272:17247-50, 1997.
		Tohkin, M., J. Kishino, J. Ishizaki, and H. Arita. Pancreatic-type phospholipase A2 stimulates prostaglandin synthesis in mouse osteoblastic cells (MC3T3-E1) via a specific binding site. <i>J. Biol. Chem.</i> 268:2865-71, 1993.
		Tsunoda, Y., and C. Owyang. The regulatory site of functional GTP binding protein coupled to the high affinity cholecystokinin receptor and phospholipase A2 pathway is on the G beta subunit of Gq protein in pancreatic acini. <i>Biochem. Biophys. Res. Commun.</i> 211:648-55, 1995.
		Walker, D.G., O. Yasuhara, P.A. Patston, E.G. McGeer, and P.L. McGeer. Complement C1 inhibitor is produced by brain tissue and is cleaved in Alzheimer disease. <i>Brain. Res.</i> 675:75-82, 1995.
		Wisniewski, H.M., and J. Weigel. Migration of perivascular cells into the neuropil and their involvement in beta-amyloid plaque formation. <i>Acta. Neuropathol. (Berl.)</i> 85:586-95, 1993.
		Wisniewski, H.M., J. Wegiel, K.C. Wang, and B. Lach. Ultrastructural studies of the cells forming amyloid in the cortical vessel wall in Alzheimer's disease. <i>Acta. Neuropathol. (Berl.)</i> 84:117-27, 1992.
	Zhu, M., C.H. Gelband, J.M. Moore, P. Posner, and C. Sumners. Angiotensin Type 2 Receptor Stimulation of Neuronal Delayed-Rectifier Potassium Current Involves Phospholipase A2 and Arachidonic Acid. <i>J. Neurosci.</i> 18:679-686, 1998.	
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	Coria, F., A. Moreno, I. Rubio, M.A. Garcia, E. Morato, and F. Mayor. The cellular pathology associated with Alzheimer $\beta$ -amyloid deposits in non-demented aged individuals. <i>Neuropathol. Appl. Neurobiol.</i> 19:261-268, 1993.						
	Lindahl, M., and C. Tagesson. Selective inhibition of group II phospholipase A2 by quercetin. <i>Inflammation</i> 17:573-82, 1993.						
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